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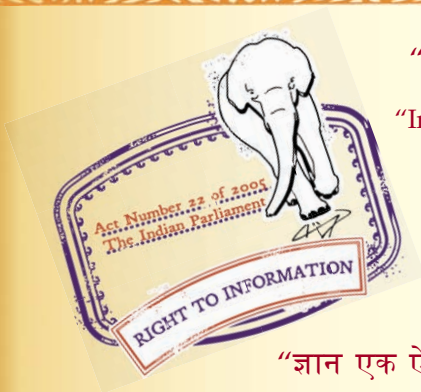
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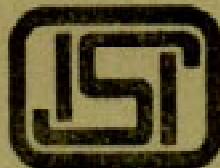
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Indian Standard

GENERAL REQUIREMENTS FOR
OTTER BOARDS

PART II RECTANGULAR HORIZONTALLY CURVED
OTTER BOARDS

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GENERAL REQUIREMENTS FOR OTTER BOARDS

PART II RECTANGULAR HORIZONTALLY CURVED OTTER BOARDS

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Indian Standard

GENERAL REQUIREMENTS FOR OTTER BOARDS

PART II RECTANGULAR HORIZONTALLY CURVED OTTER BOARDS

0. FOREWORD

0.1 This Indian Standard (Part II) was adopted by the Indian Standards Institution on 28 October 1976, after the draft finalized by the Fishing Vessels Sectional Committee had been approved by the Marine, Cargo Movement and Packaging Division Council.

0.2 This standard is Part II in the series on otter boards, Part I covers general requirements of flat rectangular otter boards and Part III will cover oval otter boards.

1. SCOPE

1.1 This standard (Part II) deals with the materials and general design requirements of rectangular horizontally curved otter boards for otter trawl.

2. TERMINOLOGY

2.0 For the purpose of this standard, the terms given in IS : 7595 (Part I)-1975* shall apply.

3. MATERIALS

3.1 *Name of Part*

Material Conforming to

Planks	IS : 399-1963†
Bracket	IS : 2073-1970‡
Back strop	IS : 5537-1970§ or IS : 2266-1970

*General requirements for otter boards: Part I Flat rectangular otter boards.

†Classification of commercial timbers and their zonal distribution (*revised*).

‡Specification for carbon steel black bars for production of machined parts for general engineering purposes (*first revision*).

§Specification for lashing chains.

||Specification for steel wire ropes for general engineering purposes (*first revision*).

<i>Name of Part</i>	<i>Material Conforming to</i>
G-link	IS : 2073-1970*
Kelly's eye	IS : 2073-1970*
Figure of 8-link	IS : 2073-1970*
Sole (shoe)	IS : 5986-1970†
Fittings	IS : 5986-1970†
Chain bridle	IS : 5537-1970‡
Towing rope	IS : 1084-1969§ or IS : 2266-1970

4. CONSTRUCTION

4.1 The constructional details of otter boards complete with fittings are shown in Fig. 1. The wooden planks shall be fixed together with through bolts and lashing shall be strengthened with strap plates or similar protection pieces, such as back channels. The whole rig shall be strengthened with iron frames and be protected at the lower edge with a heavy hard wearing metal sole.

4.2 The connecting arrangement of independent piece with back strop shall be as shown in Fig. 2.

4.3 For protection against corrosion, all metal parts shall be painted with a paint conforming to IS : 1404-1970¶.

5. DIMENSIONS

5.1 The length and width of an otter board shall be preferably in a ratio of 2 : 1. Higher ratio may also be adopted.

5.2 Brackets

5.2.1 The fore bracket shall be fixed and the rear bracket shall be adjustable chain bridle. The fixed fore bracket and adjustable rear chain bridle

*Specification for carbon steel black bars for production of machined parts for general engineering purposes (*first revision*).

†Specification for hot-rolled steel plates and flats for cold-forming and flanging operations.

‡Specification for lashing chains.

§Specification for manila ropes (*second revision*).

||Specification for steel wire ropes for general engineering purposes (*first revision*).

¶Specification for anti-corrosive paint, brushing, for ships' bottoms and hulls, red, chocolate or black, as required (*first revision*).

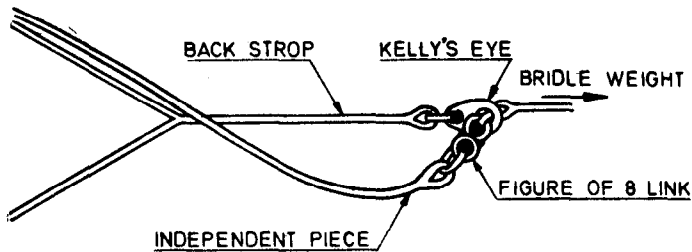


FIG. 2 CONNECTING ARRANGEMENT OF INDEPENDENT PIECE WITH BACK STROP

shall be fitted at 25 percent of the length of boards from the fore and rear ends respectively. The height of the fore bracket in perpendicular position shall be 25 percent and that of the rear bracket shall be 50 percent of the total length of the board. The brackets should be positioned about the axis of symmetry of the beard (by mass) and their apex should fall approximately at one-third of boards length from the fore edge.

5.3 The rings on the outer side of the board for connecting the back strop shall be fitted approximately between one quarter and one-eighth of the length of board from the rear.

5.4 The length of the back strop, bridle warp cable shall be as agreed to between the manufacturer and the purchaser.

5.5 For the rectangular horizontally curved otter boards the shear angle between 20° and 25° may be considered as most suitable.

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